FOCUSED SITE INSPECTION PRIORITIZATION
SITE EVALUATION REPORT

FIAT ALLIS PLANT OF NORTH AMERICA, INC.
3000 SOUTH 6TH STREET
SPRINGFIELD, ILLINOIS

CERCLIS ID NO.: ILD067406280

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
SITE ASSESSMENT SECTION
77 West Jackson Boulevard
Chicago, Illinois 60604

EPA Region 5 Records Ctr.
323968

Date Prepared:	September 19, 1995
U.S. EPA Region:	5
Contract No.:	68-W0-0037
Technical Direction Document No.:	T05-9506-208
Prepared by:	Ecology and Environment, Inc.
	Linda Knorz
E & E Program Leader:	Steven Skare
Telephone No.:	(312) 663-9415

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International Specialists in the Environment

recycled paper

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September 29, 1995

Ms. Sonia Vega
U.S. Environmental Protection Agency, Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604

Re: Fiat Allis Plant of North America, Inc. site
Springfield, Illinois
CERCLIS ID No.: ILD067406280
Focused Site Inspection Prioritization
Contract No.: 68-W0-0037
TDD No.: T05-9506-208

Dear Ms. Vega:

Enclosed are the final Focused Site Inspection Prioritization (FSIP) report and enclosures for the Fiat Allis Plant of North America, Inc. site, in Springfield, Illinois. Draft copies of this report were submitted previously to you and to Mr. Tom Crause of the Illinois Environmental Protection Agency (IEPA).

The final FSIP is presented in two volumes. Volume 1 contains the Site Evaluation Report (SER). Volume 2 contains the United States Environmental Protection Agency Recommendation Form for the site as Enclosure 1, and a transmittal memorandum and Hazard Ranking System (HRS) scoresheets as Enclosure 2.

Should you have any questions, please call me at 312/663-9415.

Sincerely,

Donovan Robertson for

Linda Knorz
Ecology and Environment, Inc.

xc: Steve Skare, Ecology and Environment, Inc.
Tom Crause, IEPA

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1. INTRODUCTION

The Ecology and Environment, Inc. (E & E), Technical Assistance Team (TAT) was assigned by the United States Environmental Protection Agency (U.S. EPA), under Contract No. 68-W0-0037, Technical Direction Document (TDD) No. T05-9506-208, to evaluate the Fiat Allis Plant of North America, Incorporated (Fiat) site in Springfield, Sangamon County, Illinois. E & E performed Focused Site Inspection Prioritization (FSIP) activities to determine whether, or to what extent, the site poses a threat to human health and the environment. This FSIP report presents the results of E & E's evaluation and summarizes the site conditions and targets pertinent to the migration and exposure pathways associated with the site. Background information was obtained from a Preliminary Assessment (PA) report submitted by the Illinois Environmental Protection Agency (IEPA), a Site Screening Inspection (SSI) report submitted by the IEPA, personal communications with various state and local agencies and U.S. EPA site files.

This report is organized into six sections, including this introduction. Section 2 describes the site and provides a brief site history. Section 3 provides information about previous investigations conducted at the site. Section 4 provides information about the four migration and exposure pathways (groundwater migration, surface water migration, soil exposure, and air migration). Section 5 is a summary of the FSIP. References used in the preparation of this report are listed in Section 6.

2. SITE DESCRIPTION AND HISTORY

The Fiat site is located at 3000 South 6th Street, in Springfield, Sangamon County, Illinois (sec. 11, T. 15 N, R. 5 W). The coordinates of the site are latitude 39° 47'54" North and longitude 89° 39'18" West (IEPA 1987). The Fiat site has been an inactive manufacturer of heavy construction equipment since 1985.

The land use surrounding the site includes residential areas to the east and commercial areas to the north, south and west. Streets bordering the site include; South 6th Street to the west; Stevenson Drive on the south; 11th Street on the east; and Stanford Avenue on the north. The nearest residential area is approximately 50 feet east of the site and the population within one mile of the site is approximately 10,645 persons (Fagan 1995). The site location is shown on Figure 2-1 (USGS 1973a; 1973b).

The former Fiat facility is situated on approximately 125 acres. In 1991, all the manufacturing buildings were razed. Currently, the majority of the site is open with a few new office complexes. Site features are shown in Figure 2-2. The nearest surface water body is an unnamed tributary of Lake Springfield approximately 0.20 miles southeast of the site. Lake Springfield is located approximately 2 miles southeast of the site.

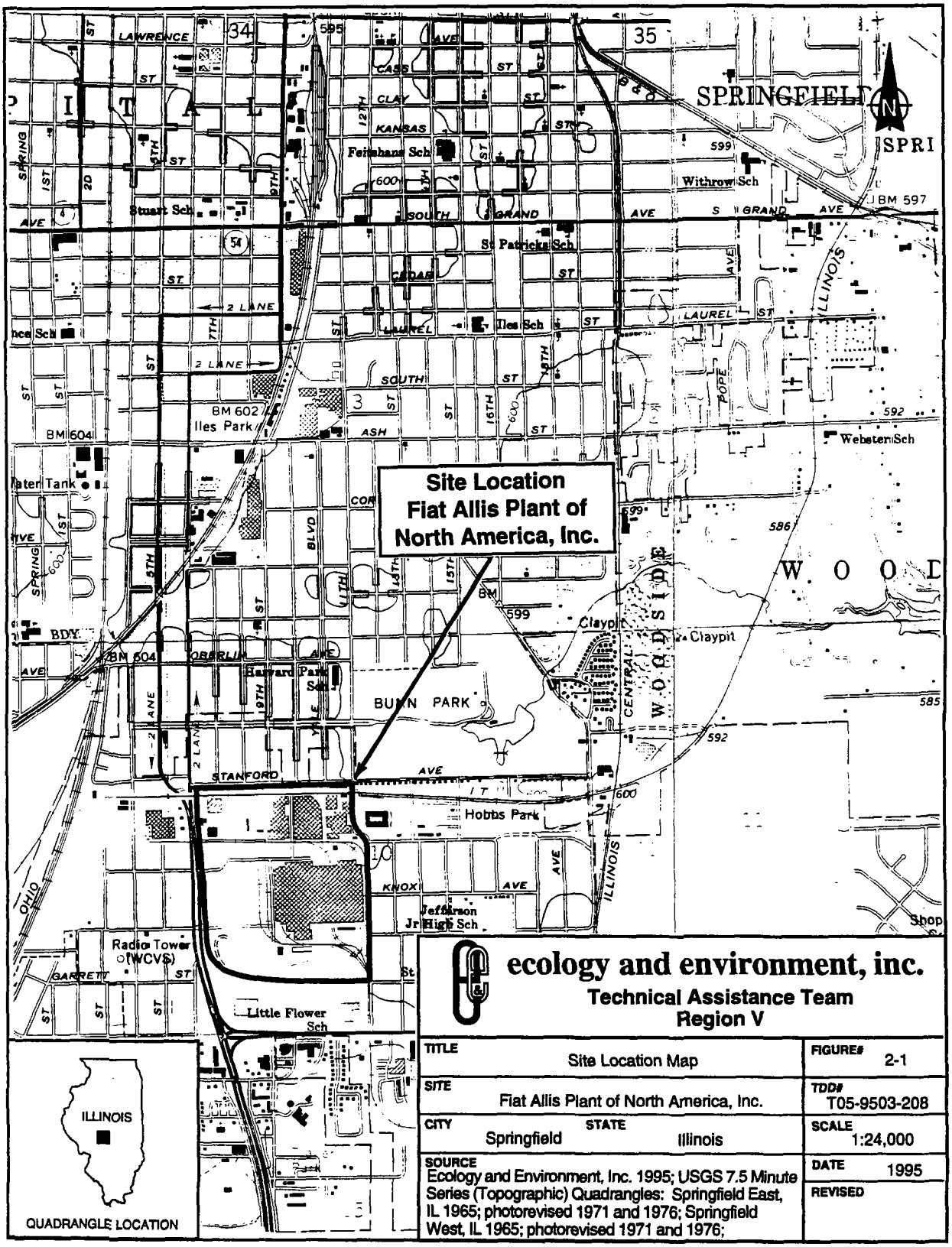
In 1974, Fiat purchased the facility from Allis Chambers. It is estimated the site has been used as a manufacturing facility of heavy equipment since the late 1930s (Predan 1995). Site ownership and use prior to the 1930s is unknown. The site had numerous structures including; manufacturing buildings, an engineering research center, and an educational center. An electroplating operation was employed at the Fiat site. Cyanide was used in the copper plating of gears and pinions. The plating line consisted of a caustic vat, a rinse vat, a work table, and a copper plating vat. Below the plating line was a sump and a drainage pit for plating sludge. The sump was estimated to hold 1,043.5 gallons of plating sludge (IEPA

1985). The electroplating wastes were not considered RCRA hazardous wastes during the facilities operation becauses these wastes were not stored, treated or disposed of on site.

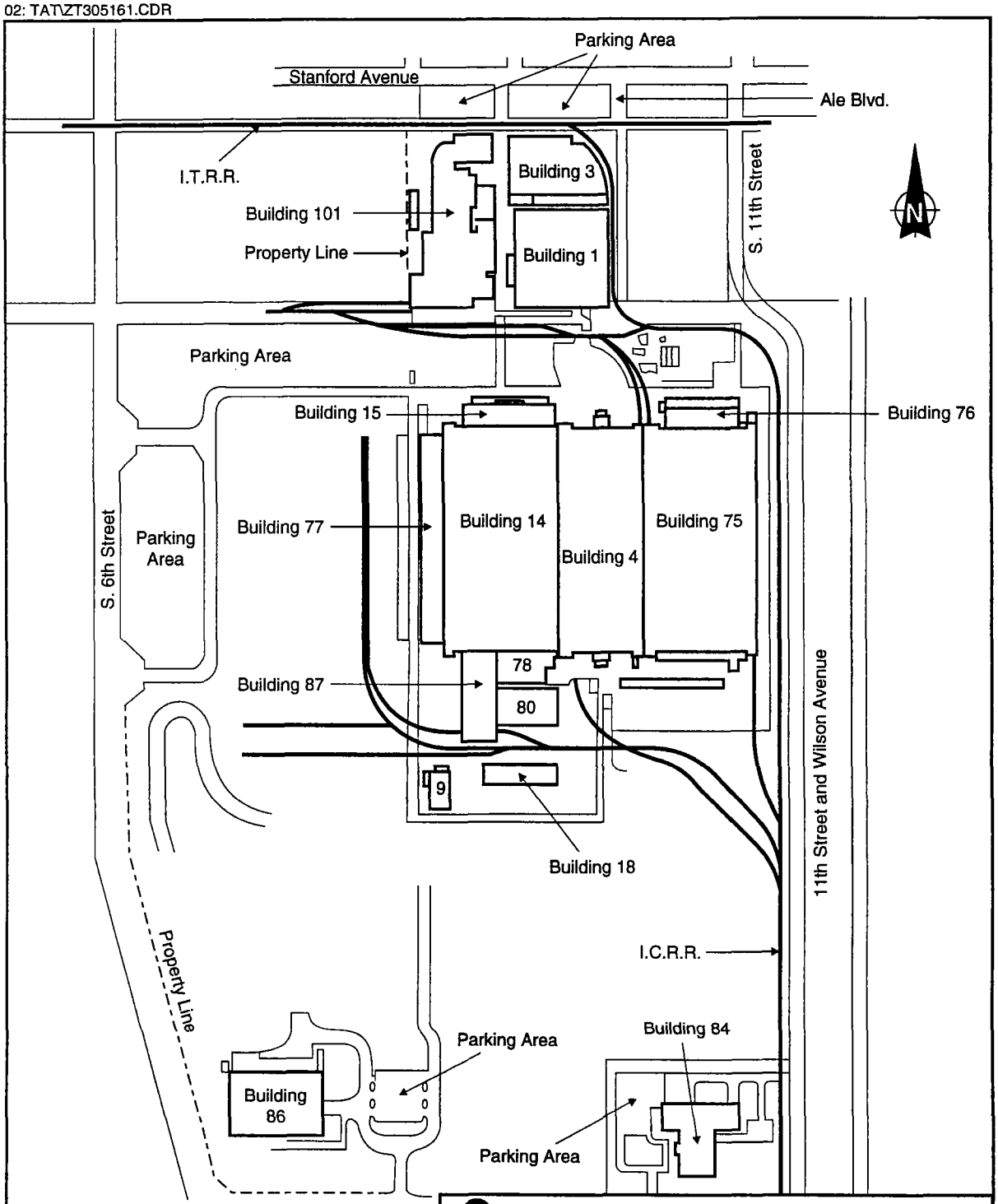
In 1985, the Fiat facility ceased operations. During the closing process, wastes from the plating line area were stored at the site for more than 90 days, and therefore were considered hazardous waste, namely electroplating wastes (F007). A Resource Conservation and Recovery Act (RCRA) closure plan for the Fiat site was approved by the IEPA in 1986. The plating line and surrounding contaminated soil was removed. In 1992, the IEPA certified the Fiat site closed in accordance with the RCRA closure plan (IEPA 1992).

In 1988, several underground storage tanks (UST) were removed from the site. It was discovered that one diesel tank had leaked two to five gallons of fuel. The contaminated soil was excavated and the surrounding soils tested. Results were below IEPA leaking underground storage tank (LUST) cleanup objectives.

In 1991, the property was sold to a developer who razed most of the buildings. During its years of operation, the Fiat site did not have a RCRA permit. In July 1986, a RCRA closure plan for the plating area was approved by the IEPA. In February 1992, the plating area was certified closed by the IEPA. The Fiat facility was issued a National Pollutant Discharge Elimination System (NPDES) permit (permit number IL0062642) beginning in 1981 and was terminated in 1993 (Kuggler 1995).


Site Location
Fiat Allis Plant of
North America, Inc.
SPRINGFIELD
ILLINOIS
QUADRANGLE LOCATION
ecology and environment, inc.
Technical Assistance Team
Region V
TITLE
Site Location Map
FIGURE#
2-1
SITE
Fiat Allis Plant of North America, Inc.
TDD#
T05-9503-208
CITY
Springfield
STATE
Illinois
SCALE
1:24,000
SOURCE
Ecology and Environment, Inc. 1995; USGS 7.5 Minute Series (Topographic) Quadrangles: Springfield East, IL 1965; photorevised 1971 and 1976; Springfield West, IL 1965; photorevised 1971 and 1976;
DATE
1995
REVISED

02: TAT\ZT305161.CDR



ecology and environment, inc.
Technical Assistance Team
Region V

TITLE: Site Features Map	FIGURE#: 2-2
SITE: Fiat Allis Plant of North America, Inc.	TDD#: T05-9503-208
CITY: Springfield STATE: Illinois	SCALE: Not to Scale
SOURCE: Ecology and Environment, Inc	DATE: 1985 REVISED: 1995

3. PREVIOUS INVESTIGATIONS

The Fiat site was initially discovered on April 9, 1985, when the IEPA received a letter from an anonymous citizen alleging that "polychlorinated biphenyls (PCBs) regularly leaked on the ground near the electrical substations throughout the plant. In addition, cyanide was dumped near the heat treatment facilities along with other industrial toxins throughout the area" (Citizen Complaint 1985). On May 9, 1985, the IEPA conducted an investigation of the Fiat site in response to the complaint alleging on-site disposal of toxic and hazardous waste. The investigation found no apparent on-site disposal of PCB wastes, therefore, no samples were collected for PCB analysis. However, a soil sample was collected near a manhole sewer outside the plating line (Building 1). The sample was analyzed for cyanide, cadmium, chrome, mercury and copper (IEPA 1985). Chemical results of the soil sample revealed cadmium at 227 milligrams per kilogram (mg/kg), chrome at 72 mg/kg, copper at 600 mg/kg, cyanide at 12 mg/kg, and mercury at 0.049 mg/kg (IEPA 1985).

In March 1987, an SSI was conducted by the IEPA at the site. The Fiat facility was in the process of closing; all operations had ceased and the equipment and machinery were being removed. During the SSI, the IEPA observed drums containing waste solvents stored outside, and some drums had missing bungs and tops. The Fiat site representative stated that the Springfield Fire Department requested that the drums be stored outside to decrease the chances of the drums exploding or catching fire (IEPA 1987). According to the SSI report, an oil discharge occurred from the Fiat Allis Engineering Research Center building in 1979. The oil entered an unnamed tributary that flows into Lake Springfield (IEPA 1987).

The SSI also included the collection of four on-site soil samples (sample numbers X101 through X104), and an off-site surface water sample from a storm sewer south of the

site that was observed to be discharging oil. Samples were analyzed for the Hazardous Substance Target Compound List (TCL) chemicals. Volatile organic compounds (VOCs) were detected in sample X101 and X102 only. The sample results and sample locations from the 1987 SSI are shown in Appendix A (IEPA 1987).

4. MIGRATION AND EXPOSURE PATHWAYS

This section describes the four migration and exposure pathways associated with the Fiat site. Section 4.1 discusses the groundwater migration pathway; Section 4.2 discusses the surface water migration pathway; Section 4.3 discusses the soil exposure pathway; and Section 4.4 discusses the air migration pathway.

4.1 GROUNDWATER MIGRATION PATHWAY

This section discusses regional and site-specific geology and soils, groundwater releases, and targets associated with the groundwater migration pathway at the site.

4.1.1 Geology and Soils

The Fiat site is located within the Illinois Basin, a structural basin of crystalline and sedimentary rocks overlain by unconsolidated geologic deposits. The bedrock surface in Sangamon dips gently to the southeast toward the center of the basin, which is located in southeastern Illinois. Bedrock crops out along some streams in the county, but in other areas is overlain by as much as 150 feet of unconsolidated deposits. The uppermost bedrock unit in the Springfield vicinity belongs to the Pennsylvanian system and has been mined extensively for its deposits of coal. The depths of the regional coal deposits range from approximately 150 to 200 feet.

Unconsolidated deposits range in thickness from less than 1 foot at bedrock outcrops to more than 150 feet in upland areas away from the valleys. These deposits consist of glacial till and loess outside of the river valleys and river sediments and glacial outwash within the river valleys (ISGS 1976).

Only a moderate potential for development of groundwater resources exists within Sangamon County. Minimal groundwater supplies are available from shallow bedrock. Water of shallow bedrock wells is generally obtained from beds of sandstone only a few feet thick or from fractured shale or limestone. Yields from shallow bedrock wells are reported to be no more than a few gallons per minute. The mineral content of groundwater within bedrock and below a depth of 200 feet is too high for most purposes. Availability of groundwater from unconsolidated geologic deposits ranges from poor to favorable.

Formerly, for approximately 50 years, the municipal water supply for the city of Springfield was obtained from groundwater of the Sangamon River valley until Lake Springfield became the source of municipal water in 1936. The municipal wells and infiltration galleries were located in the Sangamon River Valley just north of the city (ISGS 1976).

4.1.2 Groundwater Releases

The potential exists that a release of hazardous substances from the Fiat site to groundwater has occurred based on 1987 IEPA SSI analytical results of soil samples collected in the vicinity of the plating line indicating VOC contamination. Since 1987, the site owner conducted RCRA closure activities and the plating area was certified closed by the IEPA in 1992. No on-site monitoring wells exist at the site, therefore, no groundwater data is available.

4.1.3 Targets

The 100,000 residents of City of Springfield obtain drinking water from Lake Springfield located approximately 2 miles south of the site. No residents obtain drinking water from groundwater wells within 4 miles of the site (City of Springfield Public Works 1995).

4.2 SURFACE WATER MIGRATION PATHWAY

It is possible that a release to surface water has occurred according to the 1987 SSI report in which the IEPA observed oil being discharged from an off-site storm sewer outlet to an unnamed tributary of Lake Springfield. This storm sewer is located south of the site behind a U-Haul facility. A water sample was collected from this storm sewer by the IEPA,

however, no information regarding the analytical results for this sample was availabe in the site file. The 1987 SSI report stated that an oil discharge from the Fiat Allis Engineering Research Center occurred in 1979. The oil entered an unnamed tributary of Lake Springfield south of the site, near the U-Haul facility. Further information regarding these oil releases is not available in the site files. The Fiat site had an NPDES permit from 1981 until it was terminated in 1993, during which time no violations were reported. No engineered surface waater control systems were in place during the sites operating years.

The site is not located inside the 500-year flood plain of the unnamed tributary of Lake Springfield. No water intakes are located on the unnamed tributary to Lake Springfield. Water intakes are located on Lake Springfield 2.5 miles east of the site. The lake is used recreationally. Wetlands occur along the banks of the unnamed tributary of Lake Springfield located 0.2 miles southeast of the site. These wetlands are plaustrine wetlands characterized to be broad-leafed deciduous vegetation, or emergent vegetation as classified on U.S. Department of Interior (USDI) National Wetlands Inventory maps (USDI 1988).

4.3 SOIL EXPOSURE PATHWAY

A release of hazardous substances from the Fiat site to surrounding soils has been documented based on sample results from the 1987 IEPA SSI activities. Chemical analysis of on-site soil samples revealed TAL and TCL chemicals including VOC and heavy metal contamination in the vicinity of the plating building. After operations ceased at the Fiat site in 1985, the plating line was removed under a RCRA closure plan. The cleanup activites were conducted under IEPA guidance. In 1992, the site was certified closed in accordance with RCRA closure requirements.

In 1988, during UST removal activities conducted by Andrews Engineering, a diesel fuel tank was discovered to have leaked 2 to 5 gallons of fuel. The contaminated soil was removed and the excavation area tested. Results of the soil samples were below IEPA LUST cleanup objectives. In December 1990, a previously unknown UST was discovered beneath a building on the north side of the property. The tank contained a red hydraulic fluid. During the removal process, the tank ruptured and spilled several gallons of fluid. The contaminated soil was removed and the soil surrounding the UST was sampled for benzene, toulene, ethylbenzene and xylene (BTEX). BTEX sample results were below IEPA standards (IEPA 1990).

During the operating years, the Fiat site employed between 3,000 and 5,000 workers. The site was fenced and had 24-hour security (Predan 1995). The nearest residence is located 50 feet east of the site. No schools or daycare centers are located within 200 feet of the site. No endangered species are known exist in the area of the site. Wetlands occur along the banks of the unnamed tributary of Lake Springfield approximately 0.2 miles southeast of the site (USDI 1988).

4.4 AIR MIGRATION PATHWAY

A release of hazardous substances to air is unlikely to have occurred at the Fiat site. No records were found relating to citizens complaints regarding potential odor nuisances emanating from the Fiat site.

Between 3,000 and 5,000 workers were employed at the Fiat site during operations. The population surrounding the site is relatively high, approximately 10,645 persons live within a one-mile radius of the site, based on straight-line distances (Fagan 1995).

5. SUMMARY

E & E has evaluated the Fiat site using existing IEPA and U.S. EPA, local information services, and personal communications. The Fiat site has been an inactive manufacturer of heavy construction equipment facility since 1985 (IEPA 1987).
In March 1987, the IEPA conducted a CERCLA SSI in which four on-site samples were collected. The results indicated VOC contamination in two of the four samples. During UST removal activities in 1988, a diesel fuel tank was found to contain a leak. Approximately 2 to 5 gallons of fuel was ponded beneath the tank. In 1990, an unknown UST was discovered beneath the floor of a building on the north side of the property. The tank contained red hydraulic fluid. The tank was ruptured during the removal process, and several gallons of fluid leaked to the surrounding soil. Both spills were excavated and the surrounding soils tested. Chemical analysis of soil samples from excavation areas were below IEPA LUST standards.

The site is located in a mixed residential/commercial area. In 1991, the property was sold to a developer. All equipment was removed. All the buildings were razed except the educational center building located in the southeast corner of the site. A few new office buildings currently occupy the site.

The City of Springfield, population approximately 100,000, obtains drinking water from intakes in Lake Springfield located approximately 2 miles southeast of the site. No private drinking water wells exist within a 4-mile radius of the site. The geology in the area of the site consists of unconsolidated deposits of glacial till. Groundwater yields from the shallow bedrock in the site area is generally poor.

The potential exists that a release of hazardous substances to groundwater has occurred based on IEPA SSI soil sample results in 1987. VOC contamination was detected in soils surrounding the plating building. All contaminated soils were later removed during RCRA closure activities conducted by the site owner. In 1992, the IEPA certified the site closed in accordance with the RCRA closure plan.

The potential exists that a release of hazardous substances to surface water has occurred based on IEPA observations of an oil discharge from a off-site storm sewer in 1987. The 1987 IEPA SSI report also stated that in 1979 an oil discharge occurred from the Fiat Engineering Research Center into a storm sewer. The Fiat site had an NPDES permit from 1981 to 1993 during which no violations were reported.

An unnamed tributary to Lake Springfield, the nearest surface water body, is located approximately 0.2 miles southeast of the site. It is suspected that on-site storm sewers drain into this unnamed tributary.

A release of hazardous substances to the soil has been documented based on 1987 IEPA sample results. However, since the IEPA inspection the site has been closed and all contaminated soil has been removed in accordance with a RCRA closure plan. The IEPA certified the site closed in 1992.

During its years of operation, the Fiat site was fenced and had 24-hour security. The nearest residence is located 50 feet east of the site. No schools or daycare facilities are located within 200 feet of the site. Approximately 10,645 persons live within a one-mile radius of the site based on straight-line distances. Wetlands occur along the banks of the unnamed tributary located 0.2 mile southeast of the site.

A release of hazardous substances to air is unlikely. No records of complaints regarding odors are known to exist. Wetlands occur along the banks of the unnamed tributary of Lake Springfield, however, based on past site operations, it is not suspected that a release of particulates to air would affect the surrounding wetlands.

6. REFERENCES

Note: References not included as reference documentation in Appendix B: documents that are currently available within the U.S. EPA files; copyright documents that are currently available in the E & E library; maps produced by either the United States Geologic Survey or the Illinois State Geologic Survey; and documents that are created by various state agencies for public use.

Citizen Complaint to the IEPA, February 28, 1985, Anonymous Letter Alleging Hazardous Waste Dumping at the Fiat Allis North America, Inc. Plant, Springfield, Illinois.

City of Springfield Public Works, July 28, 1995, telephone communication with Qing Jiang, Ecology and Environment, Inc. (E & E), Buffalo, New York.

Fagan, Gail, August 14, 1995, Sangamon County Planning Office, telephone communication with Linda Knorz E & E, Chicago, Illinois.

Illinois Environmental Protection Agency (IEPA), February 18, 1986, Preliminary Assessment of the Fiat Allis North America, Inc., Plant, Springfield, Illinois.

_____, May 9, 1985, Site Investigation in Response to Citizens Complaint Alleging Hazardous Waste Dumping at the Fiat Allis Plant North America, Inc., Springfield,

_____, March 24, 1987, Site Screening Inspection Report for the Fiat Allis North America, Inc., Plant, Springfield, Illinois. CERCLIS ID No. ILD067406280.

_____, February 27, 1992, Letter Certifying the Fiat Allis Plating Area Closed in Accordance with RCRA Closure Plan, Springfield, Illinois.

Illinois State Geological Survey (ISGS), 1976, Circular 497, Geology for Planning in the Springfield-Decatur Region, Illinois.

Kugler, Greg, Andrews Environmental Engineering, September 7, 1995, telephone communication with Linda Knorz, E & E, Chicago, Illinois.

Predan, Robert, Esquire for Fiat Allis North America, Inc., September 5, 1995, telephone communication with Linda Knorz, E & E, Chicago, Illinois.

United States Department of Interior (USDI), 1988, National Wetland Inventory Map, Springfield West.

United States Geological Survey (USGS), 1973a, Topographic Map, 7.5 Minute Series, Springfield East.

_____, 1973b, Topographic Map, 7.5 Minute Series, Springfield West.

APPENDIX A
1987 IEPA SSI SOIL SAMPLE RESULTS

Page 1 of 1

1671205008/Sangamon
Fiat Allis N. America
Sangamon Co
Superfund technical

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHAIN OF CUSTODY

I certify that the samples listed below were collected in my presence and that each sample bottle was sealed intact by me and that I wrote my initials and the date on the seal of each bottle.

Site Inventory No. L1671205008 County SANGAMON

Federal I.D. No. ILD067406286 Fiat Allis North America Inc. (Facility Name)

SAMPLING TEAM

Sample No.	Initials	Consisting of the Indicated No. of Bottles	Date Collected	Time Sealed
X101	KLP	2	03/24/87 KLP	11:25 (AM)/PM
X102	KLP	2	03/24/87	11:45 (AM)/PM
X103	KLP	2	03/24/87	12:15 AM/(PM)
X104	KLP	2	03/24/87	12:30 AM/(PM)
S101	KLP	3	03/24/87	1:20 AM/(PM)
				AM/PM
				AM/PM
				AM/PM
				AM/PM
				AM/PM

Sealer's Signature Gregory W. Dunn Date 03/24/87 KLP Time 2:30 AM/(PM)

Sampler(s) Ken Page Greg Dunn

I certify I received the above samples, with each seal on each bottle intact and the sealer's initials written on each sample seal.

CARRIERS

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time
Kenneth L. Page	03/24/87 KLP	3:00 AM/(PM)	Greg Young	3-25-87	1000 (AM)/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM

all dates on the 23rd changed to the 24th by Kenneth L. Page

LAB CUSTODIAN

I certify I received the above samples with each seal on each bottle intact, and the sealer's initials written on each sample seal. After recording these samples in the official record book, these same samples will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Signature Greg Young Date 3-25-87 Time 1000 (A.M.)/P.M.

Lab Location St. Louis (City)

APR 3 0 1987

IL 532-1147
LPC 141 9/83

IEPA-DLPC 120-011

IEPA
Contract Laboratory Service
Chemical Analysis Form

SITE INVENTORY NUMBER 1 6 7 1 2 0 5 0 0 8 (9–18) MONITOR POINT NUMBER X 1 0 1 (see Instructions) (19–22)
REGION CENTRAL CO. SANGAMON (23–25)
DATE COLLECTED 0 3 / 2 4 / 8 7 (26–27 M, 28–29 D, 30–31 Y)
Fiat Allis North America Inc.
FACILITY NAME

FOR IEPA USE ONLY COMPLAINT NO. (32–41)
DATE RECEIVED (42–46 M D Y)
SAMPLING PURPOSE CODE (see Instructions) (48)
TIME CARD PROGRAM CODE (49–52) & UNIT CODE (53)
BACKGROUND SAMPLE (X) (54)
UNABLE TO COLLECT SAMPLE (see Instructions) (59)
MONITOR POINT SAMPLED BY (see Instructions) (60)
SAMPLE FIELD FILTERED - INORGANICS (X) (61)
TIME COLLECTED 1 1 : 2 : (24 HR CLOCK) (55–56 H, 57–58 M)

SAMPLE APPEARANCE (63–101) Soil - oily substance mixed in
(102)
COLLECTOR COMMENTS (103–141) 30 Turnaround Time
(142)

SPECIAL INSTRUCTIONS TO LAB

Ken Page (143–144) K L P (145–147) IEPA (148–157) UPS (158–167)
COLLECTED BY — INITIALS — DIVISION OR CO. — TRANSPORTED BY — DIVISION OR CO.

TEST REQUESTED: Hazardous Substance Target List of Parameters

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER (30–34)	REMARKS SEE INST. (35)	REPL APP (36)	< OR > (37)	VALUE (38–47)	REPORTING LEVEL DIGITS TO L or R (48)	REPORTING LEVEL L or OF DECI (49)
DEPTH TO WATER (ft. below LS)	7 2 0 1 9						
ELEVATION OF GW SURFACE (ft. ref MSL)	7 1 9 9 3						
TOTAL WELL DEPTH (ft. below LS)	7 2 0 0 8						
ALKALINITY TOTAL (mg/l as CaCO3)-Field	0 0 4 3 1						
REDOX POTENTIAL (millivolt)-Field	0 0 0 9 0						
pH (units)-Field	0 0 4 0 0						
SPEC CONDUCTANCE (umhos)-Field	0 0 0 9 4						
TEMP OF WATER SAMPLE (°F)-Field	0 0 0 1 1						

IEPA ANALYSIS PROGRAM
Report of VOA Results

Site ID : X101
Sample # : 87001447
Moisture : 7.5

PARAMETER	REMARKS (see inst.)	VALUE (ug/kg)	DILUTION FACTOR
Chloromethane	U	220	20
Bromomethane	U	220	20
Vinyl Chloride	U	220	20
Chloroethane	U	220	20
Methylene Chloride	B	690	20
Acetone	B	16	20
Carbon Disulfide	U	110	20
1,1-Dichloroethene	U	110	20
1,1-Dichloroethane	U	110	20
t-1,2-Dichloroethene	U	110	20
1,2-Dichloropropane	U	110	20
Chloroform	U	110	20
1,2-Dichloroethane	U	110	20
* 2-Butanone		620	20
1,1,1-Trichloroethane	U	110	20
Carbon Tetrachloride	U	110	20
Vinyl Acetate	U	220	20
Dichlorobromomethane	U	110	20
c-1,3-Dichloropropene	U	110	20
Trichloroethene	U	110	20
Benzene	U	110	20
Chlorodibromomethane	U	110	20
1,1,2-Trichloroethane	U	110	20
t-1,3-Dichloropropene	U	110	20
2-Chloroethyl Vinyl Ether	U	220	20
Bromoform	U	110	20
2-Hexanone	U	220	20
4-Methyl-2-pentanone	U	220	20
1,1,2,2-Tetrachloroethane	U	110	20
Tetrachloroethene	U	110	20
Toluene	U	110	20
Chlorobenzene	U	110	20
* Ethylbenzene		280	20
Styrene	U	110	20
* Total Xylenes		790	20

IEPA ANALYSIS PROGRAM
Report of INORGANIC Results
Soil Samples

Site ID : X101
Sample # : 87001447

PARAMETER	REMARKS (see inst.)	< OR)	VALUE (ug/kg)	DILUTION FACTOR
* Aluminum			1880000	1
Antimony	U	<	8000	1
* Arsenic			3500	1
* Barium			61400	1
Beryllium		<	1000	1
Cadmium		<	1000	1
* Calcium			63300000	10
Chromium	U	<	1600	1
Cobalt	U	<	10000	1
* Copper			17800	1
* Iron			9340000	1
* Lead			130000	1
* Magnesium			15400000	1
* Manganese			305000	1
Mercury		<	200	1
* Potassium			330000	1
* Nickel			17600	1
Selenium	URE	<	3200	5
Silver		<	400	1
* Sodium			238000	1
Thallium	U	<	400	1
Tin	U	<	20000	1
* Vanadium			12800	1
* Zinc			196000	1

Laboratory Name: ENVIRODYNE
Case No: 6

Sample Number: X101

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: MEDIUM
Date Extracted/Prepared: 3-31-87
Date Analyzed: 4-15-87
Conc/Dil Factor: /
Percent Moisture (decanted): 7.54

GPC Cleanup : NO
Sep. Funnel Extraction : YES NO (circle one)
Contin. Liq.-Liq. Ext. : YES NO (circle one)

CAS No:		ug/kg
108-95-2	Phenol	21000 U
111-44-4	bis-(2-Chloroethyl)ether	21000 U
95-57-8	2-Chlorophenol	21000 U
541-73-1	1,3-Dichlorobenzene	21000 U
106-46-7	1,4-Dichlorobenzene	21000 U
100-51-6	Benzyl Alcohol	21000 U
95-50-1	1,2-Dichlorobenzene	21000 U
95-48-7	2-Methylphenol	21000 U
39638-32-9	bis-(2-Chloroisopropyl)ether	21000 U
106-44-5	4-Methylphenol	21000 U
621-64-7	N-nitroso-di-n-propylamine	21000 U
67-72-1	Hexachloroethane	21000 U
98-95-3	Nitrobenzene	21000 U
78-59-1	Isophorone	21000 U
88-75-5	2-Nitrophenol	21000 U
105-67-9	2,4-Dimethylphenol	21000 U
65-85-0	Benzoic Acid	100000 U
111-91-1	bis-(Chloroethoxy)Methane	21000 U
120-83-2	2,4-Dichlorophenol	21000 U
120-82-1	1,2,4-Trichlorobenzene	21000 U
91-20-3	Naphthalene	21000 U
106-47-8	4-Chloroaniline	21000 U
87-68-3	Hexachlorobutadiene	21000 U
59-50-7	4-Chloro-3-methylphenol	21000 U
91-57-6	2-Methylnaphthalene	21000 U
77-47-4	Hexachlorocyclopentadiene	21000 U
88-06-2	2,4,6-Trichlorophenol	21000 U
95-95-4	2,4,5-Trichlorophenol	100000 U
91-58-7	2-Chloronaphthalene	21000 U
88-74-4	2-Nitroaniline	100000 U
131-11-3	Dimethyl phthalate	21000 U
208-96-8	Acenapthylene	21000 U
99-09-2	3-Nitroaniline	100000 U
83-32-9	Acenaphthene	21000 U
51-28-5	2,4-Dinitrophenol	100000 U
100-02-7	4-Nitrophenol	100000 U
132-64-9	Dibenzofuran	21000 U
121-14-2	2,4-Dinitrotoluene	21000 U
606-20-2	2,6-Dinitrotoluene	21000 U
84-66-2	Diethyl phthalate	21000 U
7005-72-3	4-Chlorophenyl-phenyl ether	21000 U
86-73-7	Fluorene	21000 U
100-01-6	4-Nitroaniline	100000 U
534-52-1	4,6 Dinitro 2-Methylphenol	100000 U
86-30-6	N-nitrosodiphenylamine (1)	21000 U
101-55-3	4-Bromophenyl-phenyl ether	21000 U
118-74-1	Hexachlorobenzene	21000 U
87-86-5	Pentachlorophenol	100000 U
85-01-8	Phenanthrene	21000 U
120-12-7	Anthracene	21000 U
84-74-2	Di-n-butyl phthalate	21000 U
206-44-0	Fluoranthene	21000 U
129-00-0	Pyrene	21000 U
85-68-7	Butyl-benzyl-phthalate	21000 U
91-94-1	3,3'-Dichlorobenzidine	43000 U
56-55-3	Benzo(a)anthracene	21000 U
117-81-7	bis-(2-Ethylhexyl)phthalate	4600 BJ
218-01-9	Chrysene	21000 U
117-84-0	Di-n-octyl phthalate	21000 U
205-99-2	Benzo(b)fluoranthene	21000 U
207-08-9	Benzo(k)fluoranthene	21000 U
50-32-8	Benzo(a)pyrene	21000 U
193-39-5	Indeno(1,2,3-cd)pyrene	21000 U
53-70-3	Dibenzo(a,h)anthracene	21000 U
191-24-2	Benzo(ghi)perylene	21000 U

(1)-Cannot be separated from diphenylamine

Laboratory Name: ENVIRODYNE
Case No: 6

Sample Number: X101

Organics Analysis Data Sheet
(Page 3)

Pesticides & PCB s

Concentration: MEDIUM
Date Extracted/Prepared:
Date Analyzed:
Conc/Dil Factor: 1
Percent Moisture (decanted): 7.54

GPC Cleanup : NO
Sep. Funnel Extraction : YES NO (circle one)
Contin. Liq.-Liq. Ext. : YES NO (circle one)

CAS No:		ug/kg	
319-84-6	Alpha-BHC	130	U
319-85-7	Beta-BHC	130	U
319-86-8	Delta-BHC	130	U
58-89-9	Gamma-BHC (Lindane)	130	U
76-44-8	Heptachlor	130	U
309-00-2	Aldrin	130	U
1024-57-3	Heptachlor Epoxide	130	U
959-98-8	Endosulfan I	130	U
60-57-1	Dieldrin	260	U
72-55-9	4,4 -DDE	260	U
72-20-8	Endrin	260	U
33213-65-9	Endosulfan-II	260	U
72-54-8	4,4 -DDD	260	U
1031-07-8	Endosulfan Sulfate	260	U
50-29-3	4,4 -DDT	260	U
72-43-5	Methoxychlor	1300	U
53494-70-5	Endrin Ketone	260	U
57-74-9	Chlordane	1300	U
8001-35-2	Toxaphene	2600	U
12674-11-2	Aroclor-1016	1300	U
11104-28-2	Aroclor-1221	1300	U
53469-21-9	Aroclor-1232	1300	U
53469-21-9	Aroclor-1242	1300	U
12672-29-6	Aroclor-1248	1300	U
11097-69-1	Aroclor-1254	2600	U
11096-82-5	Aroclor-1260	2600	U

Vi = Volume of extract injected (ul)
We = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

We = 1 g Vt = 10,000 ul Vi = 2.0 ul

FORM I

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00006

SAMPLE NUMBER
X101

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1		NO PEAKS FOR L.S.	BNA		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00006

SAMPLE NUMBER
X101 1:20

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1	547637	Propanic acid, 2-methyl,-methyl ester	VOA	20.6	120
2		Silane, dimethoxydimethyl	VOA	21	237
3	623427	Butanoic acid, methyl ester	VOA	21.8	443
4		Unknown mixture of cmpds.	VOA	24.5	334

IEPA
Contract Laboratory Service
Chemical Analysis Form

SITE INVENTORY NUMBER 1 6 7 1 2 0 5 0 0 8 (9–18) MONITOR POINT NUMBER X 1 D 2 (19–22)
(see Instructions)
REGION CENTRAL CO. SANGAMON
DATE COLLECTED 0 3 / 2 4 / 8 7 (23M D Y28)
Fiat Allis North America Inc.
FACILITY NAME

FOR IEPA USE ONLY COMPLAINT NO. ____
DATE RECEIVED ____ / ____ / ____ (42M D Y47)
SAMPLING PURPOSE CODE (see Instructions) (48)
TIME CARD PROGRAM CODE (49–52) & UNIT CODE (53)
BACKGROUND SAMPLE (X) (54)
TIME COLLECTED (24 HR CLOCK) 1 1 : 4 5 (55H M5)
UNABLE TO COLLECT SAMPLE (see Instructions) (59)
MONITOR POINT SAMPLED BY (see Instructions) (60) OTHER (SPECIFY)
SAMPLE FIELD FILTERED - INORGANICS (X) (61)

SAMPLE APPEARANCE (63) Soil - oily substance mixed in
(T02)
COLLECTOR COMMENTS (T03) 30 day turnaround time
(T42)

SPECIAL INSTRUCTIONS TO LAB

Ken Page (T43) K'L P (T45) IEPA UPS
COLLECTED BY INITIALS DIVISION OR CO. TRANSPORTED BY DIVISION OR CO.

TEST REQUESTED: Hazardous Substance Target Compound List of Parameters

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER (30–34)	REMARKS SEE INST. (35)	REPL APP (36)	< OR > (37)	VALUE (38–47)	REPORTING LEVEL DIGITS TO L or R (48)	REPORTING LEVEL L or R OF DECIMA (49)
DEPTH TO WATER (ft. below LS)	7 2 0 1 9						
ELEVATION OF GW SURFACE (ft. ref MSL)	7 1 9 9 3						
TOTAL WELL DEPTH (ft. below LS)	7 2 0 0 8						
ALKALINITY TOTAL (mg/l as CaCO3)-Field	0 0 4 3 1						
REDOX POTENTIAL (millivolt)-Field	0 0 0 9 0						
pH (units)-Field	0 0 4 0 0						
SPEC CONDUCTANCE (umhos)-Field	0 0 0 9 4						
TEMP OF WATER SAMPLE (°F)-Field	0 0 0 1 1						

IL 532-1332
(485 AD 1 OC

IEPA ANALYSIS PROGRAM
Report of VOA Results

Site ID : X102 1:100
Sample # : 87001448
Moisture : 24.9

PARAMETER	REMARKS (see inst.)	VALUE (ug/kg)	DILUTION FACTOR
Chloromethane	U	1300	100
Bromomethane	U	1300	100
Vinyl Chloride	U	1300	100
Chloroethane	U	1300	100
Methylene Chloride	B	690	100
Acetone	B	120	100
Carbon Disulfide	U	670	100
1,1-Dichloroethene	U	670	100
1,1-Dichloroethane	U	670	100
t-1,2-Dichloroethene	U	670	100
1,2-Dichloropropane	U	670	100
Chloroform	U	670	100
1,2-Dichloroethane	U	670	100
2-Butanone	U	1300	100
1,1,1-Trichloroethane	U	670	100
Carbon Tetrachloride	U	670	100
Vinyl Acetate	U	1300	100
Dichlorobromomethane	U	670	100
c-1,3-Dichloropropene	U	670	100
* Trichloroethene		20000	100
Benzene	U	670	100
Chlorodibromomethane	U	670	100
1,1,2-Trichloroethane	U	670	100
t-1,3-Dichloropropene	U	670	100
2-Chloroethyl Vinyl Ether	U	1300	100
Bromoform	U	670	100
2-Hexanone	U	1300	100
4-Methyl-2-pentanone	U	1300	100
1,1,2,2-Tetrachloroethane	U	670	100
Tetrachloroethene	U	670	100
* Toluene		190	100
Chlorobenzene		4200	100
Ethylbenzene	U	670	100
Styrene	U	670	100
*Total Xylenes		7200	100

IEPA ANALYSIS PROGRAM
Report of INORGANIC Results
Soil Samples

Site ID : X102
Sample # : 87001448

	PARAMETER	REMARKS (see inst.)	(OR)	VALUE (ug/kg)	DILUTION FACTOR
*	Aluminum			8460000	1
	Antimony	UR	(	8000	1
*	Arsenic			13100	5
*	Barium			165000	1
	Beryllium	U	(	1000	1
*	Cadmium			1200	1
*	Calcium			83700000	10
*	Chromium			85400	1
	Cobalt	U	(	10000	1
*	Copper			54200	1
*	Iron			54900000	1
*	Lead			289000	1
*	Magnesium			6230000	1
*	Manganese			1560000	1
	Mercury		(	200	1
*	Potassium			1346000	1
*	Nickel			40200	1
	Selenium	URE	(	3200	5
	Silver	U	(	400	1
*	Sodium			258000	1
*	Thallium			500	1
	Tin	U	(	20000	1
*	Vanadium			34600	1
*	Zinc			130000	1

Laboratory Name: ENVIRODYNE
Case No: 6

Sample Number: X102

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: MEDIUM
Date Extracted/Prepared: 3-31-87
Date Analyzed: 4-15-87
Conc/Dil Factor: 1
Percent Moisture (decanted): 24.91

GPC Cleanup : NO
Sep. Funnel Extraction : YES NO (circle one)
Contin. Liq.-Liq. Ext. : YES NO (circle one)

CAS No:		ug/kg	CAS No:		ug/kg
108-95-2	Phenol	26000 U	83-32-9	Acenaphthene	26000 U
111-44-4	bis-(2-Chloroethyl)ether	26000 U	51-28-5	2,4-Dinitrophenol	130000 U
95-57-8	2-Chlorophenol	26000 U	100-02-7	4-Nitrophenol	130000 U
541-73-1	1,3-Dichlorobenzene	26000 U	132-64-9	Dibenzofuran	26000 U
106-46-7	1,4-Dichlorobenzene	26000 U	121-14-2	2,4-Dinitrotoluene	26000 U
100-51-6	Benzyl Alcohol	26000 U	606-20-2	2,6-Dinitrotoluene	26000 U
95-50-1	1,2-Dichlorobenzene	26000 U	84-66-2	Diethyl phthalate	26000 U
95-48-7	2-Methylphenol	26000 U	7005-72-3	4-Chlorophenyl-phenyl ether	26000 U
39638-32-9	bis-(2-Chloroisopropyl)ether	26000 U	86-73-7	Fluorene	26000 U
106-44-5	4-Methylphenol	26000 U	100-01-6	4-Nitroaniline	130000 U
621-64-7	N-nitroso-di-n-propylamine	26000 U	534-52-1	4,6-Dinitro-2-Methylphenol	130000 U
67-72-1	Hexachloroethane	26000 U	86-30-6	N-nitrosodiphenylamine (1)	26000 U
98-95-3	Nitrobenzene	26000 U	101-55-3	4-Bromophenyl-phenyl ether	26000 U
78-59-1	Isophorone	26000 U	118-74-1	Hexachlorobenzene	26000 U
88-75-5	2-Nitrophenol	26000 U	87-86-5	Pentachlorophenol	130000 U
105-67-9	2,4-Dimethylphenol	26000 U	85-01-8	Phenanthrene	26000 U
65-85-0	Benzoic Acid	130000 U	120-12-7	Anthracene	26000 U
111-91-1	bis-(Chloroethoxy)Methane	26000 U	84-74-2	Di-n-butyl phthalate	26000 U
120-83-2	2,4-Dichlorophenol	26000 U	206-44-0	Fluoranthene	1400 J
120-82-1	1,2,4-Trichlorobenzene	26000 U	129-00-0	Pyrene	1100 J
91-20-3	Naphthalene	26000 U	85-68-7	Butyl-benzyl-phthalate	26000 U
106-47-8	4-Chloroaniline	26000 U	91-94-1	3,3'-Dichlorobenzidine	53000 U
87-68-3	Hexachlorobutadiene	26000 U	56-55-3	Benzo(a)anthracene	26000 U
59-50-7	4-Chloro-3-methylphenol	26000 U	117-81-7	bis-(2-Ethylhexyl)phthalate	2400 BJ
91-57-6	2-Methylnaphthalene	26000 U	218-01-9	Chrysene	1200 J
77-47-4	Hexachlorocyclopentadiene	26000 U	117-84-0	Di-n-octyl phthalate	26000 U
88-06-2	2,4,6-Trichlorophenol	26000 U	205-99-2	Benzo(b)fluoranthene	900 J
95-95-4	2,4,5-Trichlorophenol	130000 U	207-08-9	Benzo(k)fluoranthene	760 J
91-58-7	2-Chloronaphthalene	26000 U	50-32-8	Benzo(a)pyrene	26000 U
88-74-4	2-Nitroaniline	130000 U	193-39-5	Indeno(1,2,3-cd)pyrene	26000 U
131-11-3	Dimethyl phthalate	26000 U	53-70-3	Dibenzo(a,h)anthracene	26000 U
208-96-8	Acenaphthylene	26000 U	191-24-2	Benzo(ghi)perylene	26000 U
99-09-2	3-Nitroaniline	130000 U			

(1)-Cannot be separated from diphenylamine

Laboratory Name: ENVIRODYNE
Case No:

Sample Number: X102

Organics Analysis Data Sheet
(Page 3)

Pesticides & PCB s

Concentration: MEDIUM
Date Extracted/Prepared:
Date Analyzed:
Conc/Dil Factor: 1
Percent Moisture (decanted): 24.51

GPC Cleanup : NO
Sep. Funnel Extraction : YES NO (circle one)
Contin. Liq.-Liq. Ext. : YES NO (circle one)

CAS No:		ug/kg	
319-84-6	Alpha-BHC	160	U
319-85-7	Beta-BHC	160	U
319-86-8	Delta-BHC	160	U
58-89-9	Gamma-BHC (Lindane)	160	U
76-44-8	Heptachlor	160	U
309-00-2	Aldrin	160	U
1024-57-3	Heptachlor Epoxide	160	U
959-98-8	Endosulfan I	160	U
60-57-1	Dieldrin	320	U
72-55-9	4,4'-DDE	320	U
72-20-8	Endrin	320	U
33213-65-9	Endosulfan II	320	U
72-54-8	4,4'-DDD	320	U
1031-07-8	Endosulfan Sulfate	320	U
50-29-3	4,4'-DDT	320	U
72-43-5	Methoxychlor	1600	U
53494-70-5	Endrin Ketone	320	U
57-74-9	Chlordane	1600	U
8001-35-2	Toxaphene	3200	U
12674-11-2	Aroclor-1016	1600	U
11104-28-2	Aroclor-1221	1600	U
53469-21-9	Aroclor-1232	1600	U
53469-21-9	Aroclor-1242	1600	U
12672-29-6	Aroclor-1248	1600	U
11097-69-1	Aroclor-1254	3200	U
11096-82-5	Aroclor-1260	3200	U

Vi = Volume of extract injected (ul)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Ws = 1 g Vt = 10,000 ul Vi = 2.0 ul

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB
NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00006

SAMPLE NUMBER
X102

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1		Branched Hydrocarbon	BNA	6.45	16981
2		Branched Hydrocarbon	BNA	6.60	15589
3		Unknown	BNA	6.85	17258
4		Unknown	BNA	7.16	110428
5		Hydrocarbon	BNA	7.95	70119
6		Branched Hydrocarbon	BNA	8.43	36596
7		Cycloalkane	BNA	8.55	28706
8		Branched Hydrocarbon	BNA	8.76	18577
9		Hydrocarbon	BNA	10.02	23507
10		Hydrocarbon	BNA	16.65	10213
11		Bis Dimethyl Ethyl Methyl Phenol	BNA	17.27	14267
12		Cycloalkane	BNA	19.90	14267
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00006

SAMPLE NUMBER
X102 1:100

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1	1112396	Silane, dimethoxydimethyl	VOA	20.6	1020
2	623427	Butanoic acid, methyl ester	VOA	21.8	2640
3		2-Hexanone 1.1.1 Trifuoro & another Unknown cmpd.;possibly an ether compound	VOA VOA VOA	24.65	2050
4		Unknown Alkyne	VOA	28.08	1030
5		Unknown Cyclohexane	VOA	31.97	8780
6		Unknown Alkyne	VOA	32.45	10600
7		Unknown Cyclohexane	VOA	36.63	4670
8		Cyclic Alkane	VOA	39.03	4080
9		Cyclic Hexane Isomer	VOA	41.02	26500
10		Cyclic Hydrocarbon	VOA	45.57	20800

IEPA
Contract Laboratory Service
Chemical Analysis Form

SITE INVENTORY NUMBER 1 6 7 1 2 0 5 0 0 8 (9–18) MONITOR POINT NUMBER X 1 0 3 (see Instructions) (19–22)
DATE COLLECTED 0 3 1 2 8 7 (23M D Y28)

REGION CENTRAL CO. SANGAMON
Fiat Allis North America Inc.
FACILITY NAME

FOR IEPA USE ONLY COMPLAINT NO.	BACKGROUND SAMPLE (X) (54) TIME COLLECTED 1 2 : 1 (24 HR CLOCK) (55H)
DATE RECEIVED 7 7 (42M D Y47)	UNABLE TO COLLECT SAMPLE (see Instructions) (59)
SAMPLING PURPOSE CODE (see Instructions) (48)	MONITOR POINT SAMPLED BY (see Instructions) (60) OTHER (SPECIFY)
TIME CARD PROGRAM CODE (49–52) & UNIT CODE (53)	SAMPLE FIELD FILTERED - INORGANICS (X) (61)

SAMPLE APPEARANCE (63) Soil - oily substance mixed in (T02)

COLLECTOR COMMENTS (T03) 30 day turnaround time (T42)

SPECIAL INSTRUCTIONS TO LAB

Ken Page	K L P	IEPA	UPS		
COLLECTED BY (T43)	INITIALS (T45)	DIVISION OR CO.	TRANSPORTED BY		DIVISION OR CO.

TEST REQUESTED: Hazardous Substance Target Compound List of Parameters

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER (30–34)	REMARKS SEE INST. (35)	REPL APP (36)	< OR > (37)	VALUE (38–47)	REPORTING LEVEL DIGITS TO L or R (48)	REPORTING LEVEL L or DEC (49)
DEPTH TO WATER (ft. below LS)	7 2 0 1 9						
ELEVATION OF GW SURFACE (ft. ref MSL)	7 1 9 9 3						
TOTAL WELL DEPTH (ft. below LS)	7 2 0 0 8						
ALKALINITY TOTAL (mg/l as CaCO3)-Field	0 0 4 3 1						
REDOX POTENTIAL (millivolt)-Field	0 0 0 9 0						
pH (units)-Field	0 0 4 0 0						
SPEC CONDUCTANCE (umhos)-Field	0 0 0 9 4						
TEMP OF WATER SAMPLE (°F)-Field	0 0 0 1 1						

IL 532-1332
LABS CO

IEPA ANALYSIS PROGRAM
Report of VOA Results

Site ID : X103
Sample # : 87001449
Moisture : 17.4

PARAMETER	REMARKS (see inst.)	VALUE (ug/kg)	DILUTION FACTOR
Chloromethane	U	24	2
Bromomethane	U	24	2
Vinyl Chloride	U	24	2
Chloroethane	U	24	2
Methylene Chloride	B	280	2
Acetone	B	80	2
Carbon Disulfide	U	12	2
1,1-Dichloroethene	U	12	2
1,1-Dichloroethane	U	12	2
t-1,2-Dichloroethene	U	12	2
1,2-Dichloropropane	U	12	2
Chloroform	U	12	2
1,2-Dichloroethane	U	12	2
2-Butanone	U	24	2
1,1,1-Trichloroethane	U	12	2
Carbon Tetrachloride	U	12	2
Vinyl Acetate	U	24	2
Dichlorobromomethane	U	12	2
c-1,3-Dichloropropene	U	12	2
Trichloroethene	U	12	2
Benzene	U	12	2
Chlorodibromomethane	U	12	2
1,1,2-Trichloroethane	U	12	2
t-1,3-Dichloropropene	U	12	2
2-Chloroethyl Vinyl Ether	U	24	2
Bromoform	U	12	2
2-Hexanone	U	24	2
4-Methyl-2-pentanone	U	24	2
1,1,2,2-Tetrachloroethane	U	12	2
Tetrachloroethene	U	12	2
Toluene	U	12	2
Chlorobenzene	U	12	2
Ethylbenzene	U	12	2
Styrene	U	12	2
Total Xylenes	U	36	2

IEPA ANALYSIS PROGRAM
Report of INORGANIC Results
Soil Samples

Site ID : X103
Sample # : B7001449

PARAMETER	REMARKS (see inst.)	(OR)	VALUE (ug/kg)	DILUTION FACTOR
*Aluminum			3520000	1
Antimony	UR	(	8000	1
*Arsenic			13800	5
*Barium			114000	1
Beryllium		(	1000	1
Cadmium		(	1000	1
*Calcium			105000000	10
*Chromium			107000	1
*Cobalt			12200	1
*Copper			55400	1
*Iron			30900000	1
*Lead			331000	1
*Magnesium			11400000	1
*Manganese			1380000	1
Mercury	U	(	200	1
*Potassium			668000	1
*Nickel			31600	1
Selenium	UR	(	3200	5
*Silver			450	1
*Sodium			406000	1
*Thallium			470	1
Tin	U	(	20000	1
*Vanadium			20200	1
*Zinc			267000	1

Laboratory Name: ENVIRODYNE
Case No: 6

Sample Number: X103

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: MEDIUM
Date Extracted/Prepared: 3-31-87
Date Analyzed: 4-15-87
Conc/Dil Factor: 1
Percent Moisture (decanted): 17.43

GPC Cleanup : NO
Sep. Funnel Extraction : YES NO (circle one)
Contin. Liq.-Liq. Ext. : YES NO (circle one)

CAS No:		ug/kg	CAS No:		ug/kg
108-95-2	Phenol	24000 U	83-32-9	Acenaphthene	24000 U
111-44-4	bis-(2-Chloroethyl)ether	24000 U	51-28-5	2,4-Dinitrophenol	120000 U
95-57-8	2-Chlorophenol	24000 U	100-02-7	4-Nitrophenol	120000 U
541-73-1	1,3-Dichlorobenzene	24000 U	132-64-9	Dibenzofuran	24000 U
106-46-7	1,4-Dichlorobenzene	24000 U	121-14-2	2,4-Dinitrotoluene	24000 U
100-51-6	Benzyl Alcohol	24000 U	606-20-2	2,6-Dinitrotoluene	24000 U
95-50-1	1,2-Dichlorobenzene	24000 U	84-66-2	Diethyl phthalate	24000 U
95-48-7	2-Methylphenol	24000 U	7005-72-3	4-Chlorophenyl-phenyl ether	24000 U
39638-32-9	bis-(2-Chloroisopropyl)ether	24000 U	86-73-7	Fluorene	24000 U
106-44-5	4-Methylphenol	24000 U	100-01-6	4-Nitroaniline	120000 U
621-64-7	N-nitroso-di-n-propylamine	24000 U	534-52-1	4,6-Dinitro-2-Methylphenol	120000 U
67-72-1	Hexachloroethane	24000 U	86-30-6	N-nitrosodiphenylamine (1)	24000 U
98-95-3	Nitrobenzene	24000 U	101-55-3	4-Bromophenyl-phenyl ether	24000 U
78-59-1	Isophorone	24000 U	118-74-1	Hexachlorobenzene	24000 U
88-75-5	2-Nitrophenol	24000 U	87-86-5	Pentachlorophenol	120000 U
105-67-9	2,4-Dimethylphenol	24000 U	85-01-8	Phenanthrene	24000 U
65-85-0	Benzoic Acid	120000 U	120-12-7	Anthracene	24000 U
111-91-1	bis-(Chloroethoxy)Methane	24000 U	84-74-2	Di-n-butyl phthalate	24000 U
120-83-2	2,4-Dichlorophenol	24000 U	206-44-0	Fluoranthene	1100 J
120-82-1	1,2,4-Trichlorobenzene	24000 U	129-00-0	Pyrene	24000 U
91-20-3	Naphthalene	24000 U	85-68-7	Butyl-benzyl-phthalate	24000 U
106-47-8	4-Chloroaniline	24000 U	91-94-1	3,3'-Dichlorobenzidine	48000 U
87-68-3	Hexachlorobutadiene	24000 U	56-55-3	Benzo(a)anthracene	24000 U
59-50-7	4-Chloro-3-methylphenol	24000 U	117-81-7	bis-(2-Ethylhexyl)phthalate	3900 BJ
91-57-6	2-Methylnaphthalene	24000 U	218-01-9	Chrysene	24000 U
77-47-4	Hexachlorocyclopentadiene	24000 U	117-84-0	Di-n-octyl phthalate	24000 U
88-06-2	2,4,6-Trichlorophenol	24000 U	205-99-2	Benzo(b)fluoranthene	24000 U
95-95-4	2,4,5-Trichlorophenol	120000 U	207-08-9	Benzo(k)fluoranthene	24000 U
91-58-7	2-Chloronaphthalene	24000 U	50-32-8	Benzo(a)pyrene	24000 U
88-74-4	2-Nitroaniline	120000 U	193-39-5	Indeno(1,2,3-cd)pyrene	24000 U
131-11-3	Dimethyl phthalate	24000 U	53-70-3	Dibenzo(a,h)anthracene	24000 U
208-96-8	Acenaphthylene	24000 U	191-24-2	Benzo(ghi)perylene	24000 U
99-09-2	3-Nitroaniline	120000 U			

(1)-Cannot be separated from diphenylamine

Laboratory Name: ENVIRODYNE
Case No: 6

Sample Number: 1103

Organics Analysis Data Sheet
(Page 3)

Pesticides & PCB s

Concentration: MEDIUM
Date Extracted/Prepared:
Date Analyzed:
Conc/Dil Factor: 1
Percent Moisture (Decanted): 17.4

GPC Cleanup : NO
Sep. Funnel Extraction : YES NO (circle one)
Contin. Liq.-Liq. Ext. : YES NO (circle one)

CAS No:		ug/kg	
319-84-6	Alpha-BHC	150	U
319-85-7	Beta-BHC	150	U
319-86-8	Delta-BHC	150	U
58-89-9	Gamma-BHC (Lindane)	150	U
76-44-8	Heptachlor	150	U
309-00-2	Aldrin	150	U
1024-57-3	Heptachlor Epoxide	150	U
959-98-8	Endosulfan I	150	U
60-57-1	Dieldrin	290	U
72-55-9	4,4 -DDE	290	U
72-20-8	Endrin	290	U
33213-65-9	Endosulfan-II	290	U
72-54-8	4,4'-DDD	290	U
1031-07-8	Endosulfan Sulfate	290	U
50-29-3	4,4 -DDT	290	U
72-43-5	Methoxychlor	1500	U
53494-70-5	Endrin ketone	290	U
57-74-9	Chlordane	1500	U
8001-35-2	Toxaphene	2900	U
12674-11-2	Aroclor-1016	1500	U
11104-28-2	Aroclor-1221	1500	U
53469-21-9	Aroclor-1232	1500	U
53469-21-9	Aroclor-1242	1500	U
12672-29-6	Aroclor-1248	1500	U
11097-69-1	Aroclor-1254	2900	U
11096-82-5	Aroclor-1260	2900	U

Vi = Volume of extract injected (ul)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Ws = 1 g Vt = 1,000 ul Vi = 2.0 ul

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00006

SAMPLE NUMBER
X103

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1		Unknown	BNA	8.39	7164
2		Cyclolkane	BNA	19.84	47398
3		Bis Dimethyl Ethyl Methyl Phenol	BNA	20.57	7776
4		Unsaturated Hydrocarbon	BNA	23.21	24319
5		Unknown	BNA	36.51	18683
6		Unknown	BNA	38.75	130019
7		Unknown	BNA	38.84	67584
8		Unknown	BNA	39.32	9193
9		Unknown	BNA	39.57	23774
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IEPA
Contract Laboratory Service
Chemical Analysis Form

SITE INVENTORY NUMBER 1 6 7 1 2 0 5 0 0 8 (1-9, 10-18) MONITOR POINT NUMBER X 1 0 4 (see Instructions) (19, 20-22)
REGION CENTRAL CO. SANGAMON
DATE COLLECTED 0 3 1 2 4 1 8 7 (23M, D, Y28)
Fiat Allis North America Inc.
FACILITY NAME

FOR IEPA USE ONLY COMPLAINT NO.
DATE RECEIVED ___ (42M) ___ (D) ___ (Y47)
SAMPLING PURPOSE CODE (see Instructions) 48
TIME CARD PROGRAM CODE 49 ___ 52 & UNIT CODE 53
BACKGROUND SAMPLE (X) 54
UNABLE TO COLLECT SAMPLE (see Instructions) 59
MONITOR POINT SAMPLED BY (see Instructions) 60
SAMPLE FIELD FILTERED - INORGANICS (X) 61
TIME COLLECTED 12:30 (24 HR CLOCK) 55H M
OTHER (SPECIFY)

SAMPLE APPEARANCE Soil-oily substance mixed in (63)

COLLECTOR COMMENTS 30 day turnaround time (T03) T02 T42

SPECIAL INSTRUCTIONS TO LAB

Ken Page (143) COLLECTED BY — K L P (145) INITIALS — IEPA DIVISION OR CO. — UPS TRANSPORTED BY — DIVISION OR CO.

TEST REQUESTED: Hazardous Substance Target Compound List of Parameters

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	REMARKS SEE INST.	REPL APP	< OR >	VALUE	REPORTING LEVEL DIGITS TO L or R	REPORTING LEVEL L or OF DECI
DEPTH TO WATER (ft. below LS)	7 2 0 1 9 (30, 34)	35	36	37	38 — — — — . — — — — 47	48	49
ELEVATION OF GW SURFACE (ft. ref MSL)	7 1 9 9 3	—	—	—	— — — — — . — — — —	—	—
TOTAL WELL DEPTH (ft. below LS)	7 2 0 0 8	—	—	—	— — — — — . — — — —	—	—
ALKALINITY TOTAL (mg/l as CaCO3)-Field	0 0 4 3 1	—	—	—	— — — — — . — — — —	—	—
REDOX POTENTIAL (millivolt)-Field	0 0 0 9 0	—	—	—	— — — — — . — — — —	—	—
pH (units)-Field	0 0 4 0 0	—	—	—	— — — — — . — — — —	—	—
SPEC CONDUCTANCE (umhos)-Field	0 0 0 9 4	—	—	—	— — — — — . — — — —	—	—
TEMP OF WATER SAMPLE (°F)-Field	0 0 0 1 1	—	—	—	— — — — — . — — — —	—	—
	-----	—	—	—	— — — — — . — — — —	—	—
					— — — — — . — — — —	—	—

IL 532-1332
LABS 60 4 05

IEPA ANALYSIS PROGRAM
Report of VOA Results

Site ID : X104
Sample # : 87001450
Moisture : 17.3

PARAMETER	REMARKS (see inst.)	VALUE (ug/kg)	DILUTION FACTOR
Chloromethane	U	12	1
Bromomethane	U	12	1
Vinyl Chloride	U	12	1
Chloroethane	U	12	1
Methylene Chloride	B	44	1
Acetone	B	18	1
Carbon Disulfide	U	6	1
1,1-Dichloroethene	U	6	1
1,1-Dichloroethane	U	6	1
t-1,2-Dichloroethene	U	6	1
1,2-Dichloropropane	U	6	1
Chloroform	U	6	1
1,2-Dichloroethane	U	6	1
2-Butanone	U	12	1
1,1,1-Trichloroethane	U	6	1
Carbon Tetrachloride	U	6	1
Vinyl Acetate	U	12	1
Dichlorobromomethane	U	6	1
c-1,3-Dichloropropene	U	6	1
Trichloroethene	U	6	1
Benzene	U	6	1
Chlorodibromomethane	U	6	1
1,1,2-Trichloroethane	U	6	1
t-1,3-Dichloropropene	U	6	1
2-Chloroethyl Vinyl Ether	U	12	1
Bromoform	U	6	1
2-Hexanone	U	12	1
4-Methyl-2-pentanone	U	12	1
1,1,2,2-Tetrachloroethane	U	6	1
Tetrachloroethene	U	6	1
Toluene	U	6	1
Chlorobenzene	U	6	1
Ethylbenzene	U	6	1
Styrene	U	6	1
Total Xylenes	U	18	1

IEPA ANALYSIS PROGRAM
Report of VOA Results

Site ID : X104 RE
Sample # : 87001450
Moisture : 17.3

PARAMETER	REMARKS (see inst.)	VALUE (ug/kg)	DILUTION FACTOR
Chloromethane	U	12	1
Bromomethane	U	12	1
Vinyl Chloride	U	12	1
Chloroethane	U	12	1
Methylene Chloride	B	69	1
Acetone	B	51	1
Carbon Disulfide	U	6	1
1,1-Dichloroethene	U	6	1
1,1-Dichloroethane	U	6	1
t-1,2-Dichloroethene	U	6	1
1,2-Dichloropropane	U	6	1
Chloroform	U	6	1
1,2-Dichloroethane	U	6	1
2-Butanone	U	12	1
1,1,1-Trichloroethane	U	6	1
Carbon Tetrachloride	U	6	1
Vinyl Acetate	U	12	1
Dichlorobromomethane	U	6	1
c-1,3-Dichloropropene	U	6	1
Trichloroethene	U	6	1
Benzene	U	6	1
Chlorodibromomethane	U	6	1
1,1,2-Trichloroethane	U	6	1
t-1,3-Dichloropropene	U	6	1
2-Chloroethyl Vinyl Ether	U	12	1
Bromoform	U	6	1
2-Hexanone	U	12	1
4-Methyl-2-pentanone	U	12	1
1,1,2,2-Tetrachloroethane	U	6	1
Tetrachloroethene	U	6	1
Toluene	U	6	1
Chlorobenzene	U	6	1
Ethylbenzene	U	6	1
Styrene	U	6	1
Total Xylenes	U	18	1

Date: 4-29-87 Page: 1

IEPA ANALYSIS PROGRAM
Report of INORGANIC Results
Soil Samples

Site ID : X104
Sample # : 87001450

	PARAMETER	REMARKS (see inst.)	(OR)	VALUE (ug/kg)	DILUTION FACTOR
*	Aluminum			5000000	1
	Antimony	UR	(	8000	1
*	Arsenic			32300	10
*	Barium			199000	1
	Beryllium	U	(	1000	1
*	Cadmium			2400	1
*	Calcium			133000000	10
*	Chromium			213000	1
	Cobalt	U	(	10000	1
*	Copper			121000	1
*	Iron			69300000	1
*	Lead			958000	1
*	Magnesium			10800000	1
*	Manganese			1440000	1
	Mercury	U	(	200	1
*	Potassium			686000	1
*	Nickel			54000	1
	Selenium	URE	(	3200	5
	Silver	U	(	400	1
*	Sodium			388000	1
*	Thallium			550	1
	Tin	U	(	20000	1
*	Vanadium			44400	1
*	Zinc			241000	1

Laboratory Name: ENVIRODYNE
Case No: 6

Sample Number: x104

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: MEDIUM
Date Extracted/Prepared: 3-31-87
Date Analyzed: 4-21-87
Conc/Dil Factor: 1
Percent Moisture (decanted): 17.25

GPC Cleanup : NO
Sep. Funnel Extraction : YES NO (circle one)
Contin. Liq.-Liq. Ext. : YES NO (circle one)

CAS No:		ug/kg	CAS No:		ug/kg
108-95-2	Phenol	24000 U	83-32-9	Acenaphthene	24000 U
111-44-4	bis-(2-Chloroethyl)ether	24000 U	51-28-5	2,4-Dinitrophenol	120000 U
95-57-8	2-Chlorophenol	24000 U	100-02-7	4-Nitrophenol	120000 U
541-73-1	1,3-Dichlorobenzene	24000 U	132-64-9	Dibenzofuran	24000 U
106-46-7	1,4-Dichlorobenzene	24000 U	121-14-2	2,4-Dinitrotoluene	24000 U
100-51-6	Benzyl Alcohol	24000 U	606-20-2	2,6-Dinitrotoluene	24000 U
95-50-1	1,2-Dichlorobenzene	24000 U	84-66-2	Diethyl phthalate	24000 U
95-48-7	2-Methylphenol	24000 U	7005-72-3	4-Chlorophenyl-phenyl ether	24000 U
39638-32-9	bis-(2-Chloroisopropyl)ether	24000 U	86-73-7	Fluorene	24000 U
106-44-5	4-Methylphenol	24000 U	100-01-6	4-Nitroaniline	120000 U
621-64-7	N-nitroso-Di-n-propylamine	24000 U	534-52-1	4,6-Dinitro-2-Methylphenol	120000 U
67-72-1	Hexachloroethane	24000 U	86-30-6	N-nitrosodiphenylamine (1)	24000 U
98-95-3	Nitrobenzene	24000 U	101-55-3	4-Bromophenyl-phenyl ether	24000 U
78-59-1	Isophorone	24000 U	118-74-1	Hexachlorobenzene	24000 U
88-75-5	2-Nitrophenol	24000 U	87-86-5	Pentachlorophenol	120000 U
105-67-9	2,4-Dimethylphenol	24000 U	85-01-8	Phenanthrene	24000 U
65-85-0	Benzoic Acid	120000 U	120-12-7	Anthracene	24000 U
111-91-1	bis-(Chloroethoxy)Methane	24000 U	84-74-2	Di-n-butyl phthalate	24000 U
120-83-2	2,4-Dichlorophenol	24000 U	206-44-0	Fluoranthene	24000 U
120-82-1	1,2,4-Trichlorobenzene	24000 U	129-00-0	Pyrene	24000 U
91-20-3	Naphthalene	24000 U	85-68-7	Butyl-benzyl-phthalate	24000 U
106-47-8	4-Chloroaniline	24000 U	91-94-1	3,3'-Dichlorobenzidine	48000 U
87-68-3	Hexachlorobutadiene	24000 U	56-55-3	Benzo(a)anthracene	24000 U
59-50-7	4-Chloro-3-methylphenol	24000 U	117-81-7	bis-(2-Ethylhexyl)phthalate	3600 BJ
91-57-6	2-Methylnaphthalene	24000 U	218-01-9	Chrysene	24000 U
77-47-4	Hexachlorocyclopentadiene	24000 U	117-84-0	Di-n-octyl phthalate	24000 U
88-06-2	2,4,6-Trichlorophenol	24000 U	205-99-2	Benzo(b)fluoranthene	24000 U
95-95-4	2,4,5-Trichlorophenol	120000 U	207-08-9	Benzo(k)fluoranthene	24000 U
91-58-7	2-Chloronaphthalene	24000 U	50-32-8	Benzo(a)pyrene	24000 U
88-74-4	2-Nitroaniline	120000 U	193-39-5	Indeno(1,2,3-cd)pyrene	24000 U
131-11-3	Dimethyl phthalate	24000 U	53-70-3	Dibenzo(a,h)anthracene	24000 U
208-96-8	Acenaphthylene	24000 U	191-24-2	Benzo(ghi)perylene	24000 U
99-09-2	3-Nitroaniline	120000 U			

(1)-Cannot be separated from diphenylamine

Laboratory Name: ENVIRODYNE
Case No: 6

Sample Number: 7104

Organics Analysis Data Sheet
(Page 3)

Pesticides & PCB s

Concentration: MEDIUM
Date Extracted/Prepared:
Date Analyzed:
Conc/Dil Factor: 1
Percent Moisture (decanted): 17.3

GPC Cleanup : NO
Sep. Funnel Extraction : YES NO (circle one)
Contin. Liq.-Liq. Ext. : YES NO (circle one)

CAS No:		ug/kg	
319-84-6	Alpha-BHC	150	U
319-85-7	Beta-BHC	150	U
319-86-8	Delta-BHC	150	U
58-89-9	Gamma-BHC (Lindane)	150	U
76-44-8	Heptachlor	150	U
309-00-2	Aldrin	150	U
1024-57-3	Heptachlor Epoxide	150	U
959-98-8	Endosulfan I	150	U
60-57-1	Dieldrin	290	U
72-55-9	4,4'-DDE	290	U
72-20-8	Endrin	290	U
33213-65-9	Endosulfan II	290	U
72-54-8	4,4'-DDD	290	U
1031-07-8	Endosulfan Sulfate	290	U
50-29-3	4,4'-DDT	290	U
72-43-5	Methoxychlor	1500	U
53494-70-5	Endrin Ketone	290	U
57-74-9	Chlordane	1500	U
8001-35-2	Toxaphene	2900	U
12674-11-2	Aroclor-1016	1500	U
11104-28-2	Aroclor-1221	1500	U
53469-21-9	Aroclor-1232	1500	U
53469-21-9	Aroclor-1242	1500	U
12672-29-6	Aroclor-1248	1500	U
11097-69-1	Aroclor-1254	2900	U
11096-82-5	Aroclor-1260	2900	U

Vi = Volume of extract injected (ul)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Ws = 1 g Vi = 10,000 ul Vt = 2.0 ml

FORM I

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB
NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00006

SAMPLE NUMBER
X104

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1		Octanol	BNA	9.47	58487
2		Cycloalkane	BNA	16.66	2826
3		Cycloalkane	BNA	19.90	2018
4		Unknown	BNA	26.54	15814
5		Unknown	BNA	27.45	14873
6		Unknown	BNA	28.02	7676
7		Unknown	BNA	32.44	46188
8		Unknown	BNA	34.09	34960
9		Unknown	BNA	34.54	27729
10		Unknown	BNA	35.25	15976
11		Unknown			
12					
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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00006

SAMPLE NUMBER
X104 RE

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1		NO PEAKS FOR L.S.	VOA		
2					
3					
4					
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APPENDIX B
REFERENCES

SANGAMON CO.
16700000
Springfield / Fiat-A

C-85-65-C

February 28, 1985

JUN 03 1985
IEPA-DLPC

RECEIVED
APR 09 1985
IEPA-DLPC

Environmental Protection Agency
(Land Polution)
2200 Churchill Road
Springfield, Illinios

Dear Sir,

With the possibility of Fiat Allis closing the plant in the near future, I think that the City of Springfield should be made aware of some health hazards around the facility.

I am unable to reveal my sources or my name, so there can be no implication, but I have someinformation that is vital to the safety of the public.

With all of the publicity about PCB's, you should know that PCB's regularly leaked on the ground near the electrical substations throughout the plant.

There was Cyanide dumped near the heat treatment facilities, along with other industrial toxins throughout the general area.

I feel that someone in authority should be made aware of these problems, because if the area is ever developed for another use, for example, housing, these toxins could cause some devastating human problems.

Please do not let this go unheeded, for the sake of unsuspecting people. Clean-up can be successfully done to restore the land to safety levels again.

Do not take this as a vengeful or eccentric letter, I have absolutely nothing to gain by revealing this information. What you do with the information I have provided will have to be up to your conscience, I pray that it will be guided in the proper direction.

Sincerely,

A Concerned Human Being

RECEIVED
MAY 23 1985
IEPA-DLPC

ecology and environment, inc.
CHICAGO, ILLINOIS

TELEPHONE LOG

REFERENCE

CONTACT	COMPANY or AGENCY	POSITION
Gail Fagan	Sangamon Co Planning	

CONTACT ADDRESS	CONTACT PHONE NUMBER
County Bldg Monroe St. Springfield	

E&E EMPLOYEE	DATE	TIME
Linda Knerr	8/16/95	4:20

PROJECT NUMBER	SITE NAME and LOCATION
ZT3051	Fiat Allis Plant, Springfield

DISCUSSION

the population within a one-mile radius of the site is 10,645

SIGNATURE Linda Knerr

PAGE 1 OF 1

Qing JIANG
Originator

PHONE CONVERSATION RECORD

Conversation with:

Name _____

Company Water Dept. of Springfield City

Address _____

_____

Phone 217-789-2116

Date 07 . 28 . 95

Time 10 : 10 ✓ AM/PM

☒ Originator Placed Call

☐ Originator Received Call

Subject Water sources.
Fiat Allis Plant & NA INC. Springfield IL

Notes:

1. Surface water as drinking water in the city
no private wells
2. ~~The~~
2 Intakes are in Lake Springfield. about 2-mile from the site.
3. Serving 100,000 people

☐ File _____

☐ Tickle File ____/____/____

☐ Follow-Up By: _____

☐ Copy/Route To: _____

Follow-Up-Action: _____

recycled paper

ecology and environment, inc.
CHICAGO, ILLINOIS

TELEPHONE LOG

REFERENCE

CONTACT	COMPANY or AGENCY	POSITION
Robert Phelan	Fiat Allis NA	Esq.

CONTACT ADDRESS	CONTACT PHONE NUMBER
Carol Stream, IL	(708) 260-4000

E&E EMPLOYEE	DATE	TIME
Linda Knox	9/5/95	1:5

PROJECT NUMBER	SITE NAME and LOCATION
2T3057	Fiat Allis NA, Springfield IL

DISCUSSION

Fiat Allis started operating in 1974, prior to this the site was owned by Allis Chambers - which began in the late 1930's. The site has always been a construction equipment Mfg. Fiat Allis employed between 3,000 and 5,000 persons. The site was fenced and had 24-hr. security. The site ceased operations in 1985. In 1991, the property was sold to a developer. The developer razed all the buildings, except the educational center - it is now occupied by the State Fire Marshalls Office.

Contact Greg Kugler at Andreus Engineering in Springfield for more info - 787-2334

SIGNATURE Linda Knox

ecology and environment, inc.
CHICAGO, ILLINOIS

TELEPHONE LOG

REFERENCE

CONTACT	COMPANY or AGENCY	POSITION
Greg Kugler	Andrews Env. Eng.	Manager

CONTACT ADDRESS	CONTACT PHONE NUMBER
1320 S. 5th St. Springfield IL	(217) 787-2334

E&E EMPLOYEE	DATE	TIME
Linda Knorz	9/7/95	11 00

PROJECT NUMBER	SITE NAME and LOCATION
ZT3057	Fiat Allis Springfield, IL

DISCUSSION

Mr. Kugler stated that Fiat had a NPDES permit from 1981 to 1991 - (permit was terminated in 1993) During this time no violations ~~were~~ occurred. Mr. Kugler did not have or know alot of information regarding the 1979 oil discharge observed in the off-site storm sewer. Since no violations occurred during the NPDES permit, it may have been due to the U-Haul facility (the oil discharge).

During the RCRA closure activities all soil that was contaminated was removed, no groundwater contamination was detected. The buildings were razed except the educational center, located on the southeast corner. Numerous UST were removed, only two were reported as LUST incidents - the diesel tank had a leak - ~ 2 to 5 gal. The hydraulic fluid tank was ruptured during the removal process.

SIGNATURE Linda Knorz